

6/7/02 6:42

Number	Hits	Search Text	DB	Time
1	16879	hide or rawhide	USPAT; US-PGPUB	2002/04/05 13:04
2	71	slurper or super-slurper or superslurper	USPAT; US-PGPUB	2002/04/05 13:05
3	2	(hide or rawhide) and (slurper or super-slurper or superslurper)	USPAT; US-PGPUB	2002/04/05 13:06
4	26820	leather	USPAT; US-PGPUB	2002/04/05 13:07
5	0	(slurper or super-slurper or superslurper) and leather	USPAT; US-PGPUB	2002/04/05 13:08
6	30846	polyacrylate	USPAT; US-PGPUB	2002/04/05 13:09
7	1298	((hide or rawhide) or leather) and polyacrylate	USPAT; US-PGPUB	2002/04/05 13:10
8	909	((hide or rawhide) or leather) and polyacrylate) and salt	USPAT; US-PGPUB	2002/04/05 13:12
9	152	((((hide or rawhide) or leather) and polyacrylate) and salt) and "sodium chloride"	USPAT; US-PGPUB	2002/04/05 13:13
10	31	((((hide or rawhide) or leather) and polyacrylate) and salt) and "sodium chloride") and swell\$	USPAT; US-PGPUB	2002/04/05 13:19
11	9	(slurper or super-slurper or superslurper) and "sodium chloride"	USPAT; US-PGPUB	2002/04/05 13:31

DOCUMENT-IDENTIFIER: US 6177484 B1

TITLE: Combination catalyst/coupling agent for furan resin

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ABPL:

A polymerizable resin composition useful in downhole applications in a subterranean well is disclosed as including a furfuryl alcohol oligomer resin and a polymerization catalyst. The catalyst should be a C._{sub.9} to C._{sub.15} alkyl benzene sulfonic acid and preferably is a dodecyl benzene sulfonic acid. The polymerizable resin composition may also include an organic diluent selected from C._{sub.3} to C._{sub.8} alkyl esters, C._{sub.1} to C._{sub.6} alkyl alcohols; halogenated aromatics and mixtures thereof. Preferably the organic diluent is a C._{sub.1} to C._{sub.6} alkyl acetate and more preferably the organic diluent is butyl acetate. The polymerizable resin composition may include super-slurper polymers such as copolymers of starch and acrylamides or starch and acrylates. Solid particles may also be included in the polymerizable resin composition. In one embodiment in which the solid particles are sand a consolidated mass of sand particles forms, the consolidated mass having a compressive strength that is at least 50% greater than a similar consolidated mass made using p-toluene sulfonic acid as the polymerization catalyst. At least partial polymerization of the resin occurs at a temperature from about 15.degree. C. (60 F..degree.) to about 260.degree. C. (500 F..degree.).

ESPR:

The present invention is generally directed to a polymerizable resin composition including a furfuryl alcohol oligomer resin and